

# ABSTRACT OF THE DISCLOSURE

A combined component for afterburning anode exhaust gases from a fuel cell system and for vaporizing educts to be fed to the fuel cell system has an exhaust gas catalyzer for afterburning the anode exhaust gases, with a substantially  
5 cylindrical casing having an inlet and an outlet connection disposed coaxially to the long axis of the casing, one on a casing cover and the other on a casing bottom. A first gas-permeable inner tube is disposed coaxially to the long axis of the casing and fixedly joined at the gas inlet end to the casing  
10 cover, while a second gas-permeable outer tube which is also disposed coaxially with the long axis of the casing and has a radius  $r_A$  greater than the radius  $r_I$  of the inner tube but smaller than the radius  $r_C$  of the casing. The latter is connected gas-tight to the casing cover at the inlet end. A bulk  
15 catalyst is disposed in the area between the inner and the outer tube for the catalytic oxidation of the anode exhaust gas. At least one educt to be fed to the fuel cell system is provided in the area between the inner tube and the outer tube, and at least one set of educt flow tubes of the evaporator, through which the  
20 educt to be evaporated flows, are carried around the inner tube of the exhaust gas catalyst.